



#6

SEQUENCE LISTING

<110> Arslanian, Robert
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Katz, Leonard
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Licari, Peter
Regentin, Rika
Santi, Daniel
Tang, Li

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<140> US 09/957,483

<141> 2001-09-19

<150> PCT/US 01/13793

<151> 2001-04-26

<150> US 09/560,367

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<151> 2001-04-03

<150> US 60/232,696

<151> 2000-09-14

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<151> 2000-12-21

<150> US 60/269,020

<151> 2001-02-13

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31

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 <400> 20
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 PKS

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 gtg gct gga tgg ctg gcc gag cag ggg gct ggg cat ctg gtg ctg gtg 96
 Val Ala Gly Trp Leu Ala Glu Gln Gly Ala Gly His Leu Val Leu Val
 20 25 30
 ggc cgc tcc ggt gcg gtg agc gcg gag cag cag acg gct gtc gcc gcg 144
 Gly Arg Ser Gly Ala Val Ser Ala Glu Gln Gln Thr Ala Val Ala Ala
 35 40 45
 ctc gag gcg cac ggc gcg cgt gtc acg gta gcg agg gca gac gtc gcc 192
 Leu Glu Ala His Gly Ala Arg Val Thr Val Ala Arg Ala Asp Val Ala
 50 55 60
 gat cgg gcg cag atc gag cgg atc ctc cgc gag gtt acc gcg tcg ggg 240
 Asp Arg Ala Gln Ile Glu Arg Ile Leu Arg Glu Val Thr Ala Ser Gly
 65 70 75 80
 atg ccg ctc cgc ggc gtc gtt cat gcg gcc ggt atc ctg gac gac ggg 288
 Met Pro Leu Arg Gly Val Val His Ala Ala Gly Ile Leu Asp Asp Gly
 85 90 95
 ctg ctg atg cag caa acc ccc gcg cgg ttc cgc gcg gtc atg gcg ccc 336
 Leu Leu Met Gln Gln Thr Pro Ala Arg Phe Arg Ala Val Met Ala Pro
 100 105 110
 aag gtc cga ggg gcc ttg cac ctg cat gcg ttg aca cgc gaa gcg ccg 384
 Lys Val Arg Gly Ala Leu His Leu His Ala Leu Thr Arg Glu Ala Pro
 115 120 125
 ctc tcc ttc ttc gtg ctg tac gct tcg gga gca ggg ctc ttg ggc tcg 432
 Leu Ser Phe Phe Val Leu Tyr Ala Ser Gly Ala Gly Leu Leu Gly Ser
 130 135 140
 ccg ggc cag ggc aac tac gcc gcg gcc aac acg ttc ctc gac gct ctg 480
 Pro Gly Gln Gly Asn Tyr Ala Ala Ala Asn Thr Phe Leu Asp Ala Leu
 145 150 155 160
 gca cac cac cgg agg gcg cag ggg ctg cca gca ttg agc atc gac tgg 528
 Ala His His Arg Arg Ala Gln Gly Leu Pro Ala Leu Ser Ile Asp Trp
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 Gly Leu Phe Ala Asp Val Gly Leu
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552

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 PKS

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 20 25 30
 Gly Arg Ser Gly Ala Val Ser Ala Glu Gln Gln Thr Ala Val Ala Ala
 35 40 45
 Leu Glu Ala His Gly Ala Arg Val Thr Val Ala Arg Ala Asp Val Ala
 50 55 60
 Asp Arg Ala Gln Ile Glu Arg Ile Leu Arg Glu Val Thr Ala Ser Gly
 65 70 75 80
 Met Pro Leu Arg Gly Val Val His Ala Ala Gly Ile Leu Asp Asp Gly
 85 90 95
 Leu Leu Met Gln Gln Thr Pro Ala Arg Phe Arg Ala Val Met Ala Pro
 100 105 110
 Lys Val Arg Gly Ala Leu His Leu His Ala Leu Thr Arg Glu Ala Pro
 115 120 125
 Leu Ser Phe Phe Val Leu Tyr Ala Ser Gly Ala Gly Leu Leu Gly Ser
 130 135 140
 Pro Gly Gln Gly Asn Tyr Ala Ala Ala Asn Thr Phe Leu Asp Ala Leu
 145 150 155 160
 Ala His His Arg Arg Ala Gln Gly Leu Pro Ala Leu Ser Ile Asp Trp
 165 170 175
 Gly Leu Phe Ala Asp Val Gly Leu
 180

<210> 34
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 <212> DNA
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 6 of the novel 9-keto- epothilone PKS

<221> CDS
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 Asp Gly Thr Tyr Leu Val Thr Gly Ala Leu Gly Gly Leu Gly Leu Ser
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ctc gag gcg cac ggc gcg cgt gtc acg gta gcg agg gca gac gtc gcc Leu Glu Ala His Gly Ala Arg Val Thr Val Ala Arg Ala Asp Val Ala 50 55 60	192
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ctg ctg atg cag caa acc ccc gcg cgg ttc cgc gcg gtc atg gcg ccc Leu Leu Met Gln Gln Thr Pro Ala Arg Phe Arg Ala Val Met Ala Pro 100 105 110	336
aag gtc cga ggg gcc ttg cac ctg cat gcg ttg aca cgc gaa gcg ccg Lys Val Arg Gly Ala Leu His Leu His Ala Leu Thr Arg Glu Ala Pro 115 120 125	384
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Gly	Arg	Ser	Gly
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50	55	60	
Asp	Arg	Ala	Gln
65	70	75	
Met	Pro	Leu	Arg
85	90	95	
Leu	Leu	Met	Gln
100	105	110	
Lys	Val	Arg	Gly
115	120	125	
Leu	Ser	Phe	Phe
130	135	140	
Pro	Gly	Gln	Gly
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Ala	His	His	Arg
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 <210> 49
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 <400> 49
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<210> 61
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<220>
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<210> 62
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<220>
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